

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	("5,331,900") or ("3,543,687") or ("2,253,820") or ("5,203,265") or ("3,669,222") or ("4,715,288") or ("4,944,230").PN.	USPAT	OR	OFF	2007/12/28 23:20
S2	48	("5230406") or ("4519262") or ("4770288") or ("5803702") or ("6186195") or ("4951451") or ("4955854") or ("6662408") or ("6758309") or ("6994487") or ("4890721") or ("5659160") or ("5201638") or ("5213182") or ("5701973") or ("5921351") or ("6192664") or ("5003188") or ("5862905") or ("4900295") or ("4936812") or ("4405277") or ("4467796") or ("5234079") or ("5547059") or ("5838121") or ("5844195") or ("5855681") or ("5902088") or ("5905302") or ("5909994") or ("5911834") or ("6077157") or ("6082950") or ("6152070") or ("6224312") or ("6224312") or ("6522777") or ("4776580") or ("4287680") or ("4327544") or ("4518136") or ("4772010") or ("5386403") or ("5405091") or ("5441145") or ("5605215") or ("5636715") or ("5711112") or ("5838456).pn.").PN.	USPAT	OR	OFF	2007/12/28 23:19
S3	1	("6345698").PN.	USPAT	OR	OFF	2006/08/01 15:35
S4	4	("5544722") or ("5107963") or ("6006867") or ("6050370").PN.	USPAT	OR	OFF	2006/08/01 18:03
S5	19	("2100169"   "2260728"   "2260922"   "3099334"   "4434876").PN. OR ("5107963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 17:50
S6	5273	"104".clas. and (guide bias\$3 support\$3) near2 (roll\$3 wheel\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/02 11:38
S7	2567	"104".clas. and (guide) near2 (roll\$3 wheel\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 15:50
S8	336	(187/410).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/26 17:50
S9	333	S8 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:07
S10	26	("1713165"   "3087583"   "3099334"   "3669222").PN. OR ("5117946").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 18:28
S11	19	("2100169"   "2260728"   "2260922"   "3099334"   "4434876").PN. OR ("5107963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 18:29
S12	2242	((104/245,247) or (267/140) or (267/153)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/26 18:53

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S13	2171	S12 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/26 18:54
S14	487	S13 and (roll\$3 wheel\$2 guid\$3) near6 (rail elongat\$3 vertical\$2 guid\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:11
S15	243	S14 and (spring bias\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/26 18:56
S16	257	S14 and (spring bias\$3 helical\$2 coil\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/26 18:56
S17	19	("2100169"   "2260728"   "2260922"   "3099334"   "4434876").PN. OR ("5107963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 19:34
S18	11	("3329240").URPN.	USPAT	OR	ON	2006/09/26 19:38
S19	19	S14 not (S16 "12" S17 S18)	USPAT	OR	ON	2006/09/26 19:38
S20	91	S14 not (S16 S17 S18)	USPAT	OR	ON	2006/09/26 20:09
S21	336	(187/410).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/11/28 17:14
S22	333	S21 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/26 20:12
S23	26	("1713165"   "3087583"   "3099334"   "3669222").PN. OR ("5117946").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 20:12
S24	19	("2100169"   "2260728"   "2260922"   "3099334"   "4434876").PN. OR ("5107963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 20:12
S25	2242	((104/245,247) or (267/140) or (267/153)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/26 20:12
S26	2171	S25 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 15:52
S27	19	("2100169"   "2260728"   "2260922"   "3099334"   "4434876").PN. OR ("5107963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 20:12
S28	11	("3329240").URPN.	USPAT	OR	ON	2006/09/26 20:12
S29	390	(S22 S26 S23 S24 S27 S28) and (buffer\$3 insert\$3 pad low\$1friction\$2 anti\$1friction\$2 slid\$3 guid\$3) near6 (rail elongat\$3 vertical surface)	USPAT	OR	ON	2006/09/26 20:20

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S30	493	(S22 S26 S23 S24 S27 S28) and (buffer\$3 insert\$3 pad low\$1friction\$2 anti\$1friction\$2 slid\$3 guid\$3 spac\$3) near6 (rail elongat\$3 vertical surface)	USPAT	OR	ON	2006/09/26 20:14
S31	487	S26 and (roll\$3 wheel\$2 guid\$3) near6 (rail elongat\$3 vertical\$2 guid\$3)	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:19
S32	257	S31 and (spring bias\$3 helical\$2 coil\$2)	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/26 20:14
S33	91	S31 not (S32 S27 S28)	USPAT	OR	ON	2006/09/26 20:14
S34	409	S30 not (S33 S28)	USPAT	OR	ON	2006/09/26 20:18
S35	1	("5544722").PN.	US-PPGPUB; USPAT	OR	OFF	2007/03/21 22:05
S36	1	("6006867").PN.	US-PPGPUB; USPAT	OR	OFF	2007/03/21 22:01
S37	337	(187/410).CCLS.	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/21 22:02
S38	1	("5107963").PN.	US-PPGPUB; USPAT	OR	OFF	2007/03/21 22:05
S39	19	("2100169"   "2260728"   "2260922"   "3099334"   "4434876").PN. OR ("5107963").URPN.	US-PPGPUB; USPAT; USOCR	OR	ON	2007/03/21 22:05
S40	333	S37 and @pd<"20030408"	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 14:49
S41	111	104/244.ccls. and @pd<"20030408"	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:17
S42	737	B66B007/04.ipc.	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:19
S43	561	S42 and @pd<"20030408"	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:19
S44	461	S43 and (roll\$3 wheel\$2 guid\$3) near6 (rail elongat\$3 vertical\$2 guid\$3)	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:12
S45	462	S43 and (roll\$3 wheel\$2 guid\$3 rotatable rotat\$3) near6 (rail elongat\$3 vertical\$2 guid\$3)	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:22

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S46	196	S44 and (plate support\$3 base mount\$3) near3 (wheel\$2 roll\$3 rotatable rotat\$3 guid\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:23
S47	70	S46 and (plate support\$3 base mount\$3) near5 (pivot\$4 bias\$3 rotatable rotat\$3 turn\$3 swing\$3 mov\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:29
S48	126	S46 not S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 22:29
S49	1773	"104".clas. and (guide) near10 ((roll\$3 wheel\$2 rotat\$4 dis\$1) and (pivot\$4 bias\$3 rotat\$4 deflect\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 15:51
S50	1661	S49 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 15:52
S51	1648	S50 and (roll\$3 rotat\$4 wheel\$2 guid\$3) near6 (rail elongat\$3 vertical\$2 guid\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 16:01
S52	1452	S51 and (elevat\$3 lift\$4 hoist\$4 barrier door panel shaft\$1way shaft min\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 16:01
S53	1391	S52 and (roll\$3 rotat\$4 wheel\$2 dis\$1) near8 ((rail elongat\$3 vertical\$2 guid\$3) and (run\$4 contact\$4 engag\$3 roll\$3 urg\$3 bias\$3 plac\$3 dispos\$5 position\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 14:58
S54	859	S53 and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (run\$4 contact\$4 engag\$3 roll\$3 urg\$3 bias\$3 plac\$3 dispos\$5 position\$3)) and (either each both oppos\$3) near2 (side surface face))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 14:52
S55	2262	((104/245,247) or (267/140) or (267/153)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/11/28 17:11
S56	2171	S55 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:14
S57	487	S56 and (roll\$3 wheel\$2 guid\$3) near6 (rail elongat\$3 vertical\$2 guid\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:11

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S58	766	B66B007/04.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:12
S59	558	S58 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:12
S60	458	S59 and (roll\$3 wheel\$2 guid\$3) near6 (rail elongat\$3 vertical\$2 guid\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:12
S61	337	(187/410).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/11/28 17:14
S62	333	S61 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:14
S63	1219	S57 S60 S62 not (S53 S59)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 17:15
S64	580	S63 and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (run\$4 contact\$4 engag\$3 roll\$3 urg\$3 bias\$3 plac\$3 dispos\$5 position\$3) and (pivot\$4 deflect\$4 rotat\$4 swing\$4 tilt\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 14:49
S65	32	((cab car carriage cage basket) and base and mount\$3 near6 (pivot\$4 rotat\$4 swing\$4 tilt\$4 deflect\$4) and (roll\$3 rotat\$4 wheel\$2) near10 ((rail vertical\$2 guid\$3) and (engag\$3 urg\$3 bias\$3) and (first second each both oppos\$5) and (side surface fac\$3))).clm.	US-PGPUB	OR	ON	2007/11/28 18:52
S66	1	10/551243	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/28 18:55
S67	4258	49/73.1-97.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 15:11
S68	4160	S67 and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 15:13
S69	821	S68 and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (run\$4 contact\$4 engag\$3 roll\$3 urg\$3 bias\$3 plac\$3 dispos\$5 position\$3) and (pivot\$4 deflect\$4 rotat\$4 swing\$4 tilt\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/04 18:30

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S70	379	S69 and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (run\$4 contact\$4 engag\$3 roll\$3 urg\$3 bias\$3 plac\$3 dispos\$5 position\$3) and (each first second both oppos\$5) near2 (side surface face\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 15:04
S71	316	S69 and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (engag\$3 urg\$3 bias\$3 forc\$3) and (each first second both oppos\$5) near2 (side surface face\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 15:13
S72	659	49/406,414,416.ccls. and @pd<"20030408"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 15:13
S73	37	S72 and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (engag\$3 urg\$3 bias\$3 forc\$3) and (each first second both oppos\$5) near2 (side surface face\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 16:38
S74	570	"49".clas. and (garage storage utility roll\$1away overhead) near2 (door closure) and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (engag\$3 urg\$3 bias\$3 forc\$3) and (each first second both oppos\$5) near2 (side surface face\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 16:45
S75	566	S74 not (S73 S71)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/11/29 16:43
S76	89	S75 and (roll\$3 rotat\$4 wheel\$2 dis\$1) near10 ((rail elongat\$3 vertical\$2 guid\$3) and (engag\$3 urg\$3 bias\$3 forc\$3) and (pivot\$4 twist\$4 tilt\$4 swing\$4) and (each first second both oppos\$5) near2 (side surface face\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/04 18:33
S77	147	105/30,32,33.ccls. and @pd<"20030408" and (roll\$3 rotat\$4 wheel\$2 dis\$1) same ((rail elongat\$3 vertical\$2 guid\$3) and (run\$4 contact\$4 engag\$3 roll\$3 urg\$3 bias\$3 plac\$3 dispos\$5 position\$3) and (pivot\$4 deflect\$4 rotat\$4 swing\$4 tilt\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/04 18:31
S78	51	S77 and (roll\$3 rotat\$4 wheel\$2 dis\$1) near10 ((rail elongat\$3 vertical\$2 guid\$3) and (engag\$3 urg\$3 bias\$3 forc\$3) and (pivot\$4 twist\$4 tilt\$4 swing\$4) and (each first second both oppos\$5) near2 (side surface face\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/04 18:40
S79	96	S77 not S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/04 18:41